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TITLE: POWER SUPPLY DEVICE FOR ELECTRIC DISCHARGE MACHINING

PUBN-DATE: November 29, 1989

## INVENTOR-INFORMATION:

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APPL-NO: JP63122927

APPL-DATE: May 19, 1988

US-CL-CURRENT: 219/69.19

INT-CL (IPC): B23H 1/02

## ABSTRACT:

PURPOSE: To prevent a metal in an electrode side from being dissolved adhering to a workpiece side by providing a main power source, subpower source and a subpower source polarity switching circuit alternately switching applied polarity of this subpower source.

CONSTITUTION: In the case of an electric discharge machining power supply device having a main power source 1 and a subpower source 2, first the subpower source 2 is applied generating an electric discharge. The subpower source 2 alternately switches its applying polarity by a subpower source polarity switching circuit 26. In this way, a mean value of voltage, applied between gaps, is decreased. Electrolytic action is controlled by the mean value of the applied voltage, but because the mean value of the voltage is decreased (to zero if possible) as described in the above, the electrolytic action decreases, preventing even elution of a metal in a side of a workpiece 9 and of a metal in a side of a wire electrode 10.

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